



355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

September 30, 1986

Mr. Harvey P. Cahoon President Interstate Brick Company 9780 South, 5200 West West Jordan, Utah 84084



Dear Mr. Cahoon:

Re: Tentative Approval of Mining and Reclamation Plan, Interstate Brick Company, Jim Gay Mine, ACT/049/005, Utah County, Utah

The Division has completed the technical review for the Mining and Reclamation Plan for the Jim Gay Clay Mine. Interstate Brick Company's March 20, 1986 response to our December 5, 1985 deficiency letter has been determined adequate and the Division hereby issues tentative approval for the project.

The public notice information will now be forwarded to the local newspaper agency for publishing. Final approval and issuance of a permit to commence mining activities will be granted pending completion of the 30-day public comment period and upon receipt of the reclamation surety bond. The attached bonding summary outlines the Division's requirements for the amount of surety to be posted.

The Division appreciates Interstate Brick's cooperation in completing this permitting activity. Should questions or concerns remain, please contact me or D. Wayne Hedberg of the permitting staff.

Sincerely,

L. P. Braxton

Administrator Mineral Resource Development and Reclamation Program

dmw

Enclosures

cc: A. Lowell Decker, BLM, Pony Express R.A.
Marvin Maxwell, State Health
Ken May
Wayne Hedberg
Dave Wham
0457R-61

# BOND ESTIMATE SUMMARY FOR THE JIM GAY MINE INTERSTATE BRICK COMPANY ACT/049/005

Estimate Updated as of September 1986 - J.R. Harden

# BOND ESTIMATE SUMMARY

E.	Removal of Structures and Equipment Removal of Trash Revegetation Safety Foundation Elimination Monitoring	\$ 0 \$ 3,010 \$ 25,862 \$ 16,957 \$ 0 \$ 2,102
SUBT	DTAL	\$ 47,931 =======
Cont	ingency & Contractural @ 10%	\$ 4,793
TOTAL	L ESTIMATE IN 1986\$	\$ 52,724
Esca.	lation @ 1.62% per year (MEANS)	
ТОТА	L ESTIMATE IN 1991\$	\$ 57,135
TOTA	L BOND AMOUNT REQUIRED	\$ 57,000 =========

0457R-63

#### UNIT COSTS FOR EQUIPMENT

Equipment costs are based on the Rental Rate Blue Book for Construction Equipment. Labor costs are based on the Means Site Work Cost Data 1986. Other Reclamation work as is required but is not contained in the above references will be cited as they occur.

Total adjusted hourly costs for equipment selected in the estimate are as follows:

# 1. D-8L DOZER

Weekly Cost \$ 4,350.00	
Adjusted Hourly Cost per Hour \$ 108.75	
Operating Cost per Hour \$ 32.10 Operator Cost per Hour \$ 29.85	
TOTAL HOURLY COST FOR D-8L DOZER \$ 170.70	

#### 2. 980C LOADER

Estimated Total Hours - 42.1  Weekly Cost \$ 3,350.00  Adjusted Hourly Cost per Hour  Operating Cost per Hour  Operator Cost per Hour	\$ 83.75 \$ 28.40 \$ 29.85			
TOTAL HOURLY COST FOR 980C LOADER	\$ 142.00			
OTHER RATES AND COSTS USED				

Common Laborers (Means)	\$ 23.05 pe	r hour
Supervisors (Means)	\$ 32.20 pe	r hour

SEED MIX FOR THE JIM GAY MINE

SPECIES	PLS/AC	\$/LB PLS	\$/ACRE
GRASSES:			
Western Wheatgrass			
Agropyron smithii	4.5	3.40	15.30
Streambank Wheatgrass			17.70
Agropyron riparium	4.5	4.95	22.28
Siberian Wheatgrass			
Agropyron sibericum	1.5	1.50	2.25
Russian Wildrye			0.0
Elymus junceus	1.5	2.20	3.30
Sheep Fescue			
Festuca ovina	1.5	1.40	2.10
Canby Bluegrass			
Poa canbyi	1.5	3.05	4.58
Sand Dropseed			
Sporobolus cryptandrus	• 4	6.00	2.40
FORBS:			
Alfalfa			
Medicago sativa var La	dak .75	1.75	1.31
Small Burnet			
Sanguisorba minor	1.5	1.5	2.25
SHRUBS:			
Wyoming Big Sagebrush			
Artemisia tridentata		70.00	450
ssp wyomingensis	0.75	30.00	22.50
Winterfat	7.0	7 50	00.50
Ceratoides lanata	3.0	7.50	22.50
Gardner Saltbrush		4.00	0.00
Atriplex canescens	1.5	6.00	9.00
TOTALS	23.9		\$ 109.77
(As of Sept. 22, 1986 Costs			+ ==-

(As of Sept. 22, 1986 Costs)

Note - this application rate applies to hand broadcasting.

#### REVEGETATION COSTS FOR ESTIMATION

For Seed Mix - Use \$ 110.00 per acre for 50.1 acres

#### FERTILIZATION

For Fertilizer - Use \$ 45.00 per 100 lb

#### MULCH

None Used

### A. Removal of Structures and Equipment

No Structures.

#### B. Removal of Trash

#### C. Rock Waste Areas

#### Existing Dumps and Pad

Equipment - D-8L Dozer

Productivity - 1020 cy/hr

12,125 cy / 1020 cy/hr = 11.9 hrs

Cost - 11.9 hrs x \$ 170.77/hr = \$ 2,032

# Scarification of Disturbed Area - 50.1 acres

Equipment - D-8L Dozer w/ drawbar

Productivity - 1.5 ac/hr

50.1 ac / 1.5 ac/hr = 33.4 hrs

Cost - 33.4 hrs x \$ 170.77/hr \$ 5,704

# Topsoil Replacement - 2.5 acres

Equipment - 980C Loader

Productivity - 150 cy/hr

2037 cy / 150 cy/hr = 13.6 hrs

Cost - 13.6 hrs x \$ 142.00/hr = \$ 1,931

#### Revegetation - 50.1 acres

Equipment (Scarification) - 980C Loader
Productivity - 4.0 ac/hr
50.1 ac / 4.0 ac/hr = 12.5 hrs
 Cost - 12.5 hrs x \$ 142.00/hr = \$ 1,775

Equipment (Seeding) - Hand Broadcasting

Productivity - 1.2 ac/hr

50.1 ac / 1.2 ac/hr = 41.8 hrs

Cost - 41.8 hrs x \$ 23.05/hr = \$ 963

#### D. Safety

#### Southern Portion of Pit

Equipment - D-8L Dozer

Productivity - 530 cy/hr

2,200 cy / 530 cy/hr = 4.2 hrs

Cost - 4.2 hrs x \$ 170.77/hr \$ 717

# Extreme Northern Slope of Pit

Equipment - D-8L Dozer

Productivity - 530 cy/ hr

7,200 cy / 530 cy/hr = 13.6 hrs

Cost - 13.6 hrs x \$ 170.77/hr \$ 2,322

#### Within Northern End of Pit

Equipment - D-8L Dozer

Productivity - 530 cy/hr

43,200 cy / 530 cy/hr = 81.5 hrs

Cost - 81.5 hrs x \$ 170.77/hr \$ 13,918

\$ 16,957

#### E. Foundation Elimination

None.

# F. Monitoring

Estimated @ 16 hrs per year for 4 yrs 16hrs / yr x 4 yrs = 64 hrs Cost - 64 hrs x \$ 32.85/hr =

\$ 2,102

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	SUBTOTAL	\$ 47,931
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	Contingency & Contractural @ 10%	\$ 4,793

TOTAL ESTIMATE IN 1986\$

\$ 52,724

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